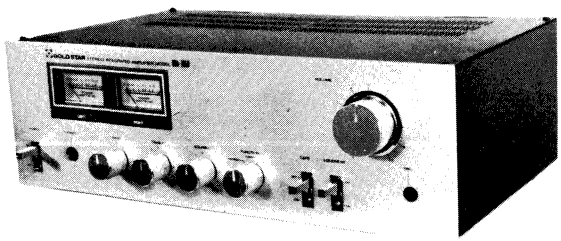
SV2-040B

SV2-040B

Gold Star Audio

SERVICE MANUAL

for service technician



Gold Star Co., Ltd

STEREO AMPLIFIER

GSA-7050

SPECIFICATIONS

This specifications may be changed for improvement of performance without notice.

Power output (1000Hz)	25W + 25W
Distortion	0.1%
Frequency response	25-30000Hz
Signal to noise ratio	
Phono	60dB
Tuner/Tape	70dB
Cross talk	
Phono	45dB
Tuner/Tape	50dB
Bass (100Hz)	±10dB
Treble (10KHz)	±10dB
Loudness	
50Hz	+10dB
10KHz	+6dB
Input sensitivity	
Phono	2.5mV
Tuner/Tape	150mV
Mic	5mV
Hum/Noise	0.5mV
Semi-conductors	29TR, 14 Diode 1 Rectifier
Power supply	220V, 50Hz
Power consumption	130W
Dimensions	420(W)x138(H) x275(D)m/m
Weight	6kg

Printed in Korea Nov., 1981

DISASSEMBLY INSTRUCTIONS

1. Top case removal

Remove 4 screws Ⓐ as shown in Fig. 1

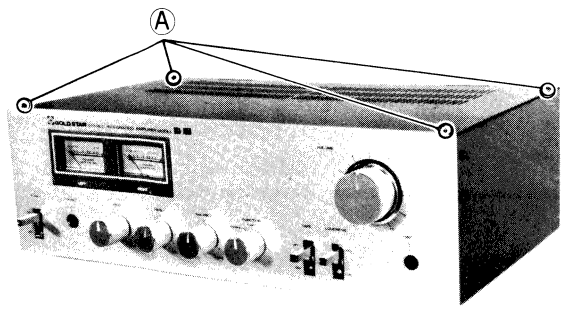


Fig. 1

2. Front panel removal

When replacing parts on the front panel-switches, meters and volumes-pull out the switch knobs, volume knobs and tuning knob, and then remove 3 screws Ⓑ as shown in Fig. 2.

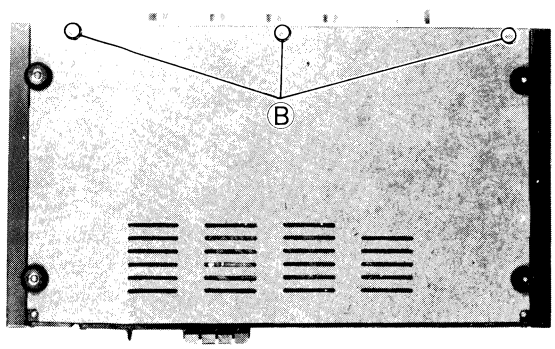


Fig. 2

3. Button case removal

When checking any circuit or repacing any parts on the PWB, remove screws Ⓑ and Ⓒ (See Fig. 3)

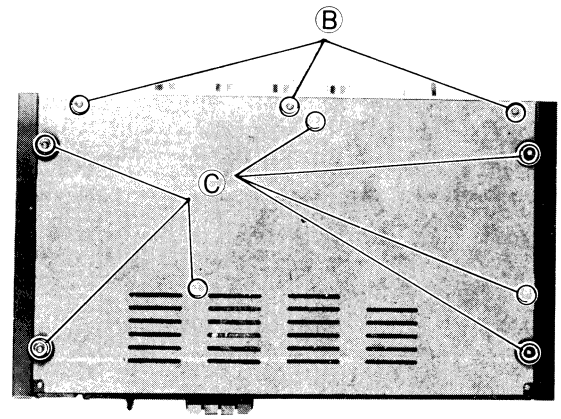
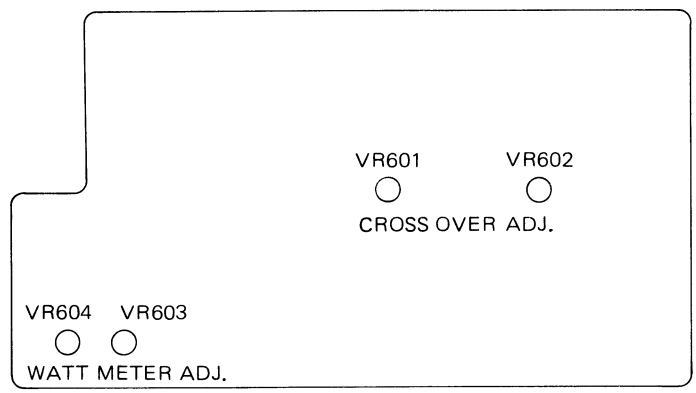


Fig. 3

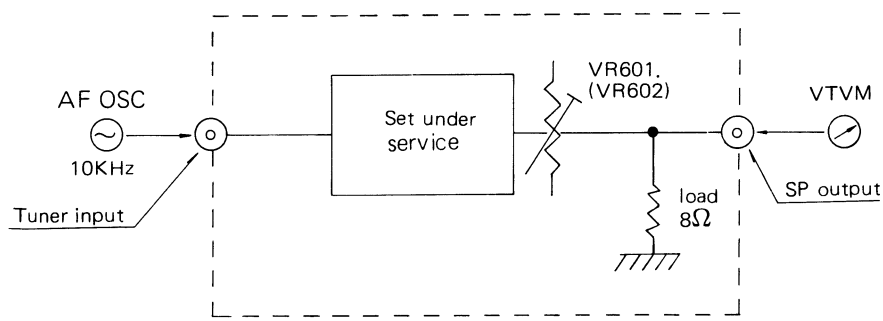
ALIGNMENT INSTRUCTIONS

This stereo amplifier has been aligned at the factory and normally will not require further adjustment.
As a result, it is not recommended that any attempt is made to modificate any circuit.
If any parts are replaced or if anyone tampers with the adjustments, realignment may be necessary.

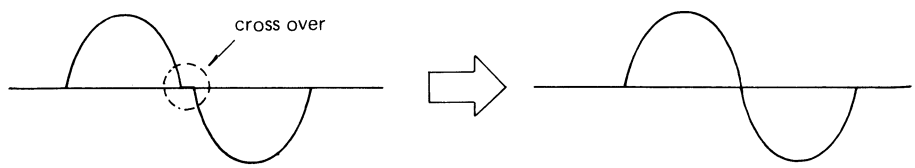
Adjustment points location



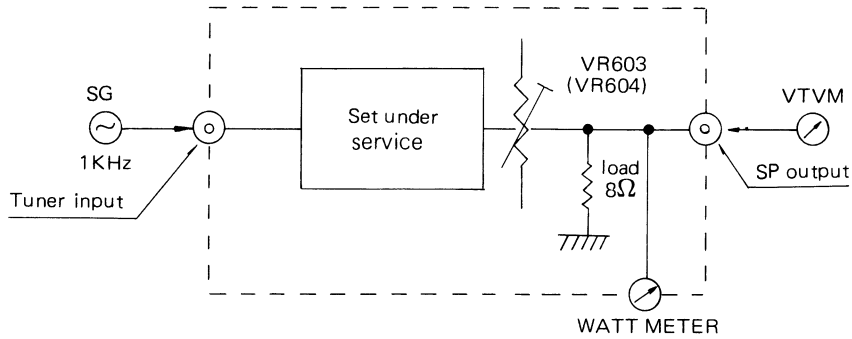
1. CROSS OVER ADJUSTMENT



No.	Input	Adjustment	output
1	10KHz	AF OSC output	2.8V
2	10KHz	VR601, VR602	for cross over disappear.

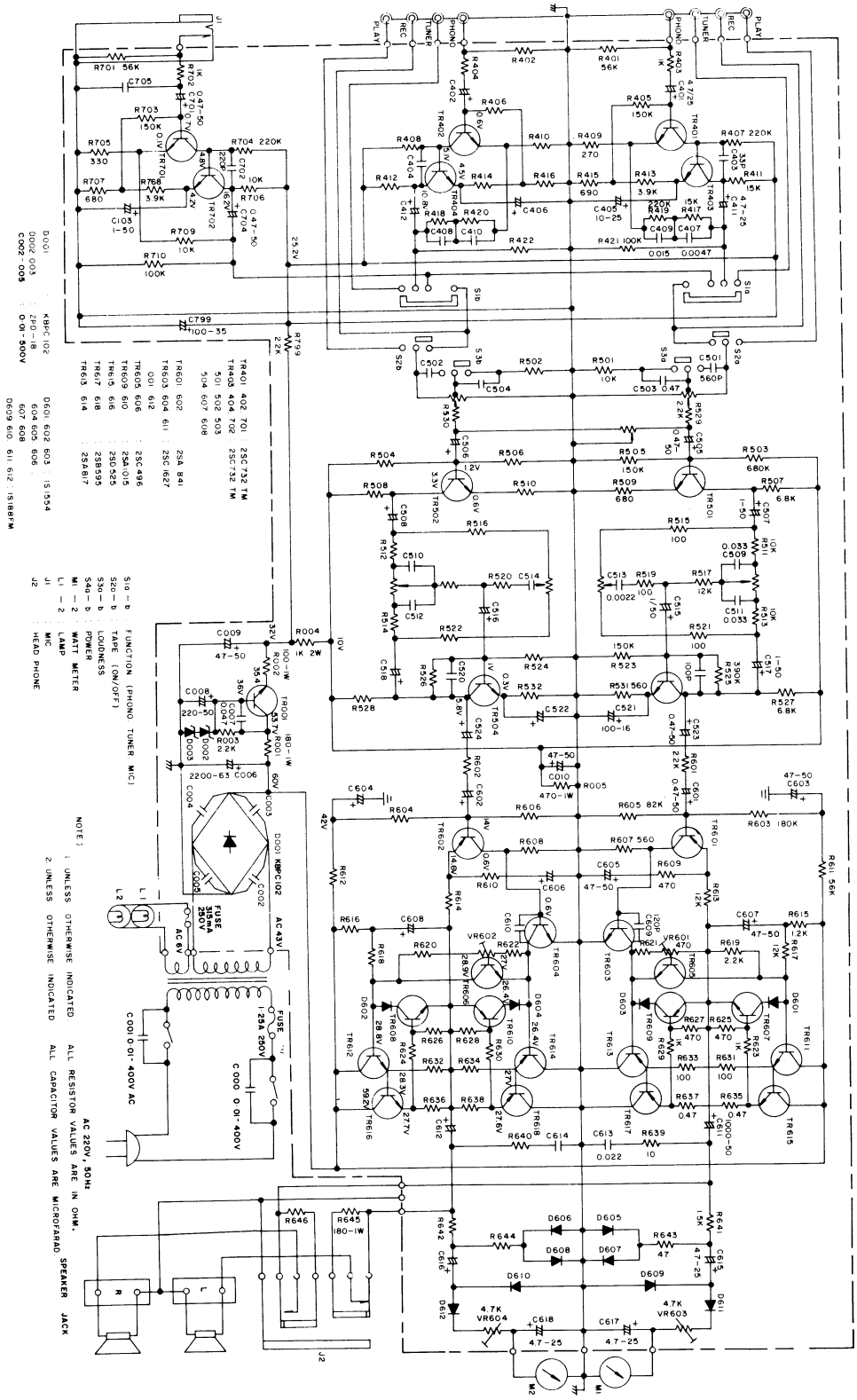


2. WATT METER ADJUSTMENT

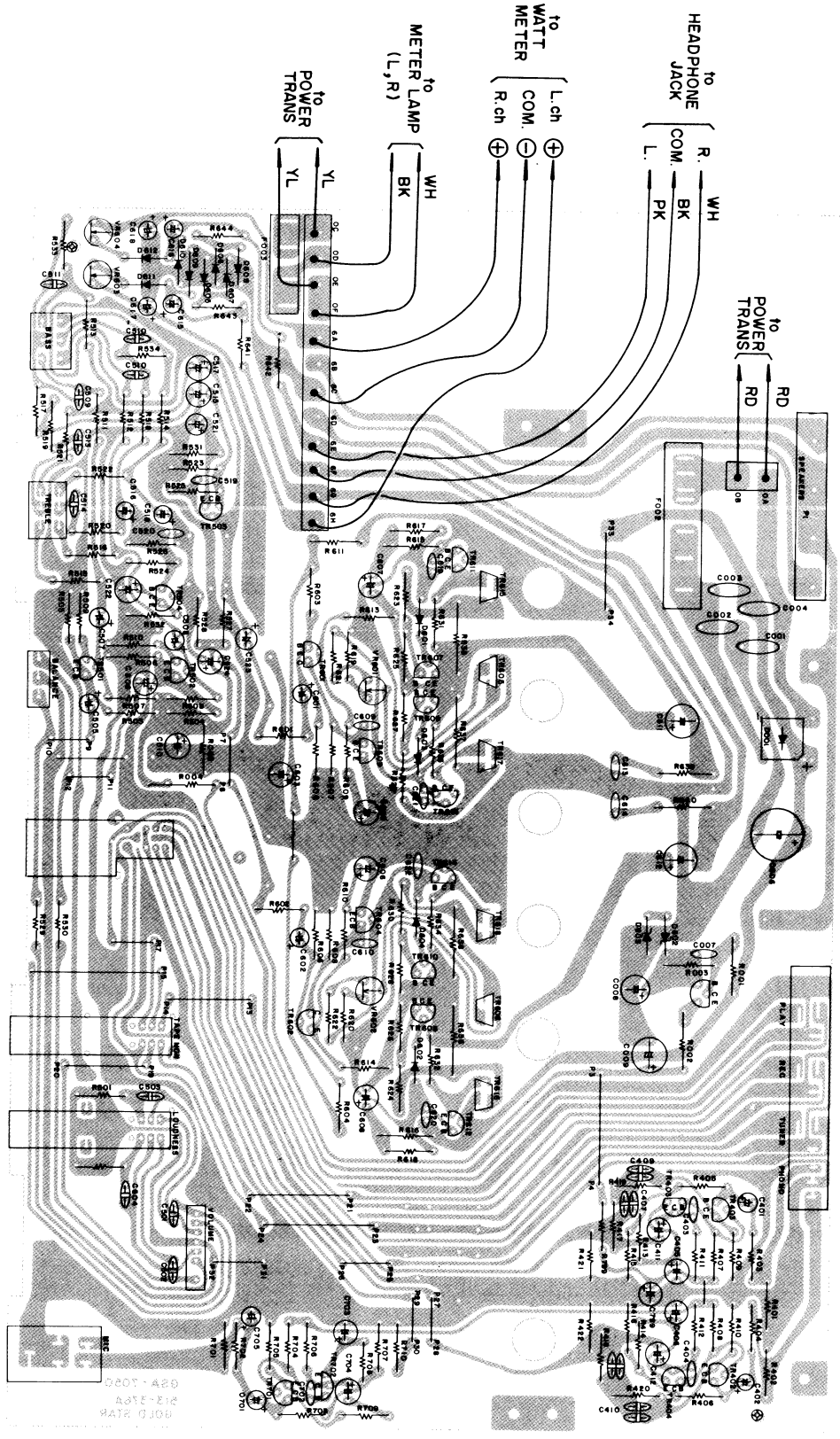


No.	Input	Adjustment	output
1	1KHz	Volume under set	0.5V on VTVM
2	1KHz	VR603, VR604	Watt meter should read 0.03W
3	1KHz	Volume under set	8.9V on VTVM
4	1KHz	VR603, VR604	Watt meter should read 10W
5	Repeat the above item 1)~4) to content item 2) and 4)		

SCHEMATIC DIAGRAM



ELECTRICAL PARTS LOCATION AND WIRING DIAGRAM



ELECTRICAL PARTS LIST

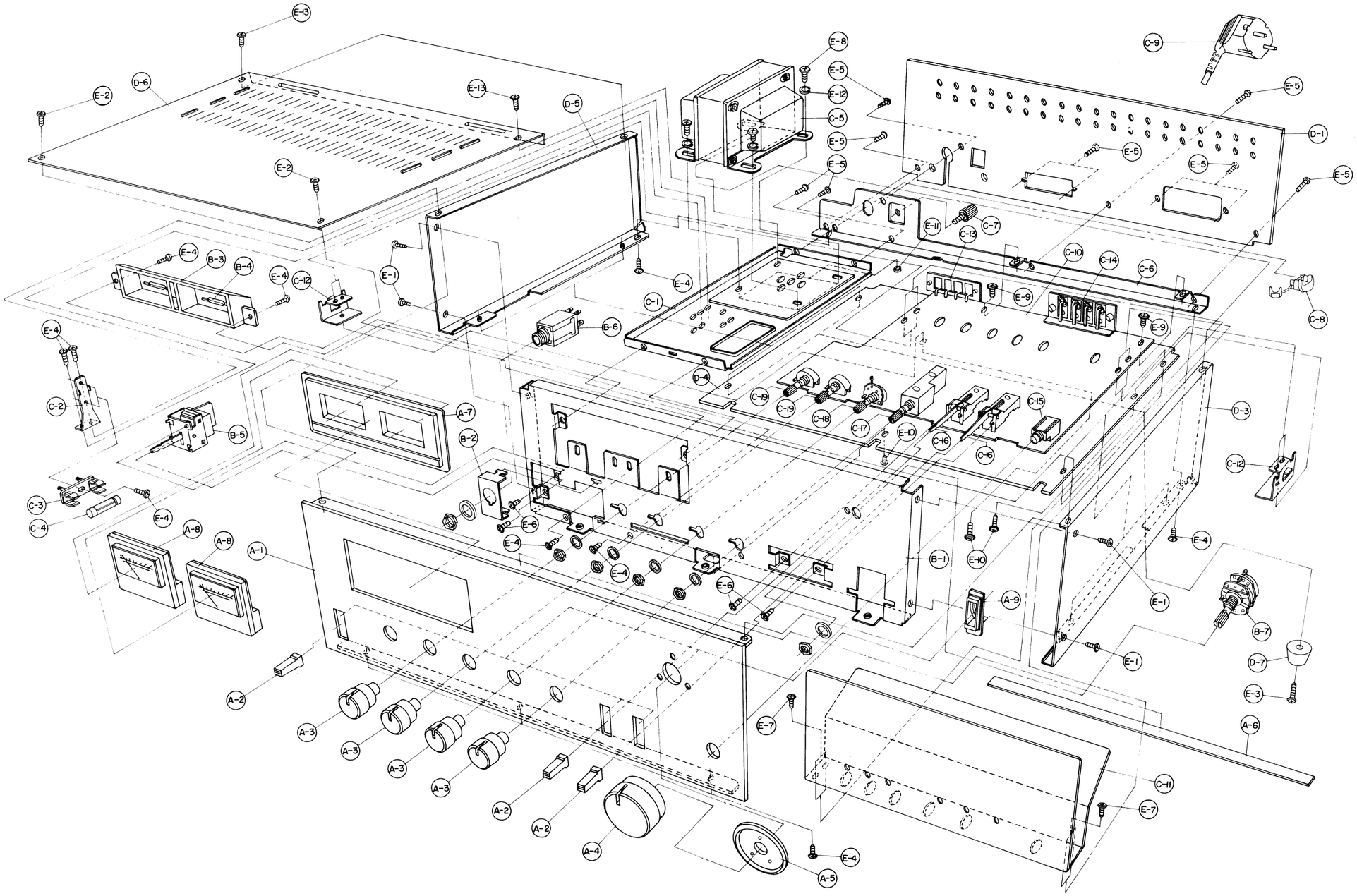
PWB AY MAIN (511-376A)

NO.	SYMBOL NO.	PART NO.	DESCRIPTION
1	VOLUME	611-610A	VR, R-GJ70E-100KBx2 25KQ
2	BALANCE	611-611A	VR, R-VM10E-100KW 25KQ
3	BASS TREBLE	611-612A	VR, R-GM70E-100KBx2 25KQ
4	LOUDNESS TAPE		
	MONITOR	556-606A	SW, LEVER SLR-722D
5	MIC	572-034H	JACK PHONE
6	FUNCTION	551-021C	SW ROTARY SRZ-V023(12.5) 25K
7		573-059A	SOCKET AY, RCA
8		561-027A	SPEAKER CONNECTOR
9		664-407B	TRANSISTOR, TOSHIBA, K, 25C4960
10	TR605, 606	662-018A	TRANSISTOR MOTOROLA MJE9400
11	TR613, 614	665-833A	TR, TOSHIBA, 2SA-817-O
12		255-047A	PLATE, HEATSINK
13		321-270A	BRACKET, PWB
14	TR617, 618	665-854B	TR, SOTHIBA, 25B595-O
15	TR603, 604, 611,		
	612, 001	665-832A	TR, TOSHIBA, 25C-1627-O
16	TR601, 602	666-0008A	TRANSISTOR TOSHIBA 25A841GR
17	TR401, 402, 701,		
	501, 502	665-816A	TR, TOSHIBA, 2SC-732TM-GR
18	TR615, 616	666-611B	TRANSISTOR TOSHIBA 2SD525O
19	TR403, 404, 702,		
	503, 504	665-816A	IR, TOSHIBA, 2SC-732TM-GR
20	D605, 606, 607,		
	608	652-605B	DIODE, SWITCHING, IS2472
21	D609, 610, 611,		
	612	651-020A	DIODE IS188FM02
22	D001	652-602A	RECTIFIER, BRIDGE, KBPC102, G.I
23	D022, 003	654-607D	DIODE, ZENER, ZPD-18, ITT.
24	R000	RS471K00	R, METAL, OXIDE 470-K 1WP
25	R002	RS101K05	R, METAL, OXIDE 100-K 1WP
26	R004	RS102K07	R, METAL, OXIDE 1k-K 2WP

NO.	SYMBOL NO.	PART NO.	DESCRIPTION
27	VR601, 602	613-002I	VR, R 470-B SR 19R
28	VR603, 604	613-002C	VR, SEMI-FIXED SR19R-4-7KB 10D
29	R635, 636, 637,		
	638	RNR47K07	R, CARBON FILM
30	R645, 646, 001	RS181K05	R, METAL, OXIDE 180-K 1WP
31			
32			
33	R639, 640	RD100K03	R, CARBON FILM 10R-K1/2WP
34	R643, 644	RD470J19	R, CARBON FILM 47-J1/4WS
35	R519, 20, 21, 22,		
	15, 16, 631, 32, 34	RD101J19	R, CARBON FILM 100-J1/4WS
36	R621, 622	RD821J19	R, CARBON FILM 820-J1/4WS
37	R409, 410	RD271J19	R, CARBON FILM 270-J1/4Ws
38	R705	RD331J19	R, CARBON FILM 330-J 1/4WS
39	R609, 610	RD471J19	R, CARBON FILM 470-J1/4WS
40	R531, 532, 607,		
	608	RD561J19	R, CARBON FILM 560-J1/4WS
41	R415, 416, 707	RD681J19	R, CARBON FILM 680-J1/rWS
42	R403, 404, 702,		
	509, 510	RD102J19	R, CARBON FILM 1K-J1/4WS
43	R641, 642	RD152J19	R, CARBON FILM 1.5K-J1/4WS
44	R003, 529, 30, 601		
	02, 19, 20, 799	RD222J19	R, CARBON FILM 2.2K-J1/4WS
45	R708, 413, 414	RD392J19	R, CARBON FILM 3.9K-J1/4WS
46	R507, 508, 527,		
	528	RD682J19	R, CARBON FILM 6.8K-J1/4WS
47	R706, 09, 501, 02,		
	11, 12, 13, 14	RD103J19	R, CARBON FILM 10K-J1/4WS
48	R411, 412, 417,		
	418	RD153J19	R, CARBON FILM 15K-J1/4WS
49	R517, 518, 613,		
	614, 617, 618	RD123J19	R, CARBON FILM 12K-J1/4WS

NO.	SYMBOL NO.	PART NO.	DESCRIPTION	NO.	SYMBOL NO.	PART NO.	DESCRIPTION
50	R701, 611, 401, 402	RD563J19	R, CARBON FILM 56K-J1/4WS	71	C509, 510, 511, 512	CQ333J01	C, POLYESTER 0.033MF-J 50V
51	R605, 606	RD823J19	R, CARBON FILM 82K-J1/4WS	72	C006, VINTING TYPE	CE228K01	C, ELECTROLYTIC 2200MF 63V
52	R710, 421, 422	RD104J19	R, CARBON FILM 100K-J1/4WS	73	C703, 507, 508, 515, 516, 517, 518	CE105F01	C, ELECTROLYTIC 1MF-50V
53	R703, 405, 406, 505, 506, 523, 524	RD154J19	R, CARBON FILM 150K-J1/4WS	74	C701, 704, 601, 602, 505, 06, 23, 24	CE474F01	C, ELECTROLYTIC 0.47MF-50V
54	R704, 407, 408, 419, 420	RD224J19	R, CARBON FILM 220K-J1/4WS	75	C401, 402, 411, 412, 615, 16, 17, 18	CE475F01	C, ELECTROLYTIC 4.7MF 50V
55	R603, 604	RD184J19	R, CARBON FILM 180K-J1/4WS	76	C603, 607, 608, 009, 010	CE476F01	C, ELECTROLYTIC 47MF 50V
56	R525, 526	RD394J19	R, CARBON FILM 390K-J1/4WS	77	C008	CE227F01	C, ELECTROLYTIC 220MF 50V
57	R503, 504	RD564J19	R, CARBON FILM 560K-J1/4WS	78	C611, 612	CE108F01	C, ELECTROLYTIC 1000MF 50V
58		RD122J03	R, CARBON-FILM 1.2K-J 1/2WP	79	C605, 606	CE477D01	C, ELECTROLYTIC 470MF 25V
59	C002, 003. 004, 005	CK103P03	C, CERAMIC CK 0.01MF-P 500V	80	C799	CE107E01	C, ELECTROLYTIC 100MF 35V
60	C403, 404	CC330K01	C, CERAMIC CC 33PF-K SL 50V	81	C405, 406	CE106D01	ELECTROLYTIC 10MF 25V
61	C519, 520	CC101K01	C, CERAMIC CC 100PF-K SL 50V	82	C521, 522	CE107C01	C, ELECTROLYTIC 100MF-16V
62	C609, 610	CC121K01	C, CERAMIC CC 120PF-K SL 50V	83		561-005D	CONNECTOR MALE (7P)
63	C702	CC221K01	C, CERAMIC CC 220 PF-K SL 50V	84		563-616F	TERMINAL AY MOLEX, 7 PIN
64	C501, 502	CC561J01	C, CERAMIC CC 560PF-J SL 50V	85		586-101A	FUSE HOLDER KS CLIP TYPE 5x20
65	C613, 614	CK223Z02	C, CERAMIC CK 0.022MF-Z 50V	86		564-022A	PLUG AY, 12 PIN.
66	C007	CK473Z02	C, CERAMIC CK 0.047MF-Z 50V	87		585-110B	FUSE 5x20 SEMKO 250V 1.25A SLO
67	C407, 408	CQ472J01	C, POLYESTER 0.0047MF-J 50V	88	F003	585-103B	FUSE 5x20 SEMKO 250V 315MA SLO
68	C513, 514	CQ222J01	C, POLYESTER 0.0022MF-J 50V				
69	C503, 504	CQ473J01	C, POLYESTER 0.047MF-J 50V				
70	C409, 410	CQ153J01	C, POLYESTER 0.015MF-J 50V				

EXPLODED VIEW FOR CABINET



MECHANICAL PARTS LIST

NO.	PART NO.	DESCRIPTION
A-1	248-100A	PANEL FRONT
A-2	273-233A	KNOB LEVER SWITCH
A-3	272-069A	KNOB CONTROL
A-4	272-070A	KNOB VOLUME
A-5	223-001A	BOTTOM BUNING & VOLUME
A-6	447-048A	CUSHION TOP CASE
A-7	236-113B	WINDOW METER
A-8	518-610A	METER WATT
A-9	384-029A	GUIDE LEVER SWITCH
B-1	313-136A	CHASSIS FRONT
B-2	324-354A	HOLDER JACK
B-3	219-022A	HOUSING METER
B-4	582-011D	LAMP TUBULAR 6V 70mA
B-5	556-031A	SW LEVER
B-6	572-150D	JACK HEADPHONE
B-7	611-610A	VR R GJ70E-100K Bx2 25KQ
C-1	313-137A	CHASSIS BOTTOM
C-5	641-614C	TRANS, POWER
C-6	323-038A	FIXER, JACK
C-7	353-055A	SCREW, SPECIAL
C-8	324-348A	HOLDER, CORD HEYCO SR-4N-4
C-9	681-003D	CORD, POWER, 300V/7A
C-11	255-047A	PLATE, HEATSINK
C-12	321-270A	BRACKET, PWB
C-13	561-027A	SPEAKER CONNECTOR (4P)
C-14	573-059A	SOCKET AY, RCA (8P)
C-15	572-034H	JACK, MIC
C-16	556-606A	SW, LEVEL SLR-722D
C-17	551-021C	SW, ROTARY SRE–V023 25K
C-18	611-611A	VR, R. VM10E-100KW 25KQ
C-19	611-612A	VR, R. GM70E-10KBX2 25KQ
D-1	256-365A	PLATE BACK
D-3	217-189B	CASE SIDE (R)
D-4	256-344A	PLATE BOTTOM
D-5	217-190C	CASE SIDE (L)
D-6	217-188A	CASE TOP
D-7	264-003A	LUG RUBBER
E-1	TRQ1830I	SCREW TRQ+3x6 FBK
E-2	TRQ1839I	" TRQ+3x10 FBK
E-3	TRQ1843J	" TRQ+3x14 FBK
E-4	TRQ1830J	" TRQ+3x6
E-5	TRQ1836I	" TRQ+3x8 FBK
E-6	MRC1830J	" MRO+3x6
E-7	TRQ1836J	" TRQ+3x8
E-8	MRC2236J	" MRC+4x8
E-9	353-052I	" SPECIAL
E-10	353-052J	" "
E-11	NHA2200J	NUT NHA 1-4
E-12	WSB22000	WASHER SPRING WSB 2-4

MEMO